

Name: _____

at1121exam_practice: Radicals and Squares (v18)

Question 1

Simplify the radical expressions.

$$\sqrt{18}$$

$$\sqrt{28}$$

$$\sqrt{99}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x+6)^2 + 6}{7} = 10$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 10x = -16$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 - 28x + 93$$

Express the function in **vertex form** and identify the **location** of the vertex.